

ABSTRACT

Title: The usage of HPLC in pharmaceutical analysis

Name: Anton Krivda

This labour deals with determination and validation of method suitable for qualitative and quantitative analysis of dimetinden maleas in Fenistil[®] gel through the use of high performance liquid chromatography with UV detection.

There were two differential analytical columns tested (C18 and ZICTM column).

Acceptable outcomes were got with these chromatographic conditions:

- wavelength $\lambda = 258 \text{ nm}$.
- analytical column: SeQuant ZICTM Column(50 x 2.1 mm; 5 μm)
- compound of mobile phase: acetonitrile : aqueous solution of acetic acid (25 mM) and ammonium acetate (2,5 mM), (87,5:12,5)
- flow rate $f_m = 0,3 \text{ ml/min}$
- internal standard: diltiazem hydrochloride

Recovery, effectivity of column, assymetry and resolution of chromatographic peaks were tested in validation tehse method. Each of them reposed in licenced range.